Observing Application

Date :	Apr, 25 2010
Proposal ID :	VLA/10A-261
Legacy ID :	AD627
PI :	George Djorgovski
Type :	Rapid Response - Target of Opportunity
Category :	Stellar, Extragalactic
Total Time :	3.0

Is CSS100217:102913+404220 a luminous supernova or a tidal disruption event?

Abstract:

We have discovered an extremely luminous (M=-23.2) event from our Catalina Real-Time Transient Survey (CRTS). If it is a supernova it is at least one magnitude brighter than the previous brightest SNe. Spectroscopy and multi-wavelength observations with Galex and Swift, however, suggest that this bright event may be interpreted as a rare tidal disruption event. We ask for short radio observations to be taken concurrent with our multi-wavelength campaign to help us build a physical model for this unusual event.

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Related proposals:

Joint:

Not a Joint Proposal

Observing type(s):

Continuum, Monitoring

VLA Resources

Name	Conf.	Frontend & Backend	Setup
Single	D	C Band 6 cm 4000-8000 MHz WIDAR OSRO1: 2 Subbands/Full polz	Rest frequencies: 4896.0, 5024.0 MHz Bandwidth: 128.0 MHz No. of Channels: 64 Poln. products: 4.0 Channel Width: 2000.0 kHz

Sources:

Name	Position		Velocity		Group
CSS100217	**Coordinate System**	Equatorial	**Convention**	Redshift	JustOne
	Equinox	J2000			
	Right Ascension	10:29:12.56	**Ref. Frame**	LSRK	
		00:00:00.0			
	Declination	+40:42:20	**Redshift**	0.15	
		00:00:00			

Sessions:

Name	Session Time (hours)	Repeat	Separation	LST minimum	LST maximum	Elevation Minimum
Multi	1.00	3	3 day	04:30:00	16:30:00	0

Session Constraints:

Name	Constraints	Comments
Multi	Dates of VLA observation are tied to Galex, Swift and HST. First date is April 27th.	

Session Source/Resource Pairs:

Session Name	Source	Resource	Time	Figure of Merit	Subarray
Multi	CSS100217	Single	1.0 hour	0.015 mJy/bm	

Present for observation: yes Staff support: None Plan of Dissertation: no